

# UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/910,485	07/20/2001	Mark B. Lyles	068986.0102	1620
	7590 01/13/2003			
Baker Botts L.L.P.			EXAMINER	
One Shell Plaza 910 Louisiana Street			SULLIVAN, DANIEL M	
Houston, TX 77002-4995			ART UNIT	PAPER NUMBER
			1636	10
			DATE MAILED: 01/13/2003	15

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
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	Office Action Summary	09/910,485	LYLES, MARK B.				
omee Action Cummary		Examiner	Art Unit				
	The MAIL ING DATE of this communication and	Daniel M Sullivan	h the correspondence address				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE - External after - If the - If NO - Failt - Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a repl period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a re y within the statutory minimum of thirty will apply and will expire SIX (6) MONT c, cause the application to become ABA	ply be timely filed  (30) days will be considered timely.  HS from the mailing date of this communication.  NDONED (35 U.S.C. § 133).				
1)🖾	)⊠ Responsive to communication(s) filed on <u>20 December 2002</u> .						
2a) <u></u>	This action is <b>FINAL</b> . 2b)⊠ Th	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims							
·		andina in the anniheation					
4)[	✓ Claim(s) <u>5-17,35-40,42,47 and 53-64</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.						
5\⊠	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) 6-17,35-40 and 42 is/are allowed.							
	6)⊠ Claim(s) <u>47 and 53-64</u> is/are rejected. 7)⊠ Claim(s) <u>5</u> is/are objected to.						
	Claim(s) are subject to restriction and/o	r election requirement					
	ion Papers	r election requirement.					
9)[	The specification is objected to by the Examine	r.					
10)	The drawing(s) filed on is/are: a)□ acce	oted or b) objected to by th	e Examiner.				
	Applicant may not request that any objection to the	e drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).				
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12)☐ The oath or declaration is objected to by the Examiner.							
Priority ι	ınder 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:							
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
* 5	<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
а	) $\square$ The translation of the foreign language $\operatorname{pro}$	visional application has be	en received.				
Attachmen			-				
2) 🔲 Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>9.</u>	5) Notice of In	ummary (PTO-413) Paper No(s) formal Patent Application (PTO-152)				

#### **DETAILED ACTION**

This Non-Final Office Action is a reply to the Response under 37 C.F.R. 1.111 filed December 20, 2002 (Paper No. 12) in response to the Final Office Action mailed June 21, 2002 (Paper No. 8). Finality of the previous Office Action is herewith **WITHDRAWN**.

Claims 5 and 35-38 were amended, claims 18-34, 41, 43-46, and 48-52 were canceled and claims 53-64 were added in Paper No. 12. Claims 5-17, 35-40, 42, 47 and 53-64 are presently pending and under consideration.

# Response to Amendment

All rejections as they pertain to claims 18-34, 41, 43-46, and 48-52 are rendered moot by the cancellation of those claims in Paper No. 12.

Rejection of claim 5, and claims depending from claim 5, under 35 U.S.C. § 102(e) as being anticipated by Li *et al.* is withdrawn in view of the amendments to claim 5 in Paper No. 12.

# New Grounds

# Claim Objections

Claims 5 and 40 are objected to because of the following informalities: Claim 5 is contains several misspelled words (e.g. phynylalanine should be phenylalanine, trytophan should be tryptophan). In claim 40, dimethyl sulfa oxide should be dimethyl sulfoxide. Applicant is

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urged to review the entire disclosure and correct any additional typographical errors therein.

Appropriate correction is required.

# Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 54 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The claim is directed to the method of claim 47 wherein the nucleic acid is DNA of an average size of at least 100 base pairs. The nucleic acid of claim 47 is, however, "greater than 5000 base pairs". It is therefore unclear how the size limitation of claim 54, greater than 100 base pairs, further limits the nucleic acid of claim 47, which is *at least* 5000 base pairs.

#### Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 47 and 53-63 is rejected under 35 U.S.C. 102(b) as being anticipated by Li *et al.* (1996) WO 96/01617 (made of record in the IDS filed July 26, 2002, Paper No. 9).

Li et al. teaches a method to reduce absorption of ultraviolet light by the skin of a mammal comprising providing a formulation comprising a nucleic acid and applying said formulation to the skin of a mammal. In the first full paragraph on page 12, Li et al. teaches that the nucleic acids comprised by the formulation include DNA fragments sized approximately smaller than 5 kb. As the nucleic acid molecules of Li et al. are produced by random cleavage of

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high molecular weight DNA, the formulation of Li *et al.* would inherently comprise nucleic acid molecules having a molecular weight greater than 5 kb. The formulation of Lie *et al.* anticipates claims of the instant application because, given their broadest reasonable interpretation, the claims encompass a method of using any formulation comprising *at least one* nucleic acid having a molecular weight greater than 5000 base pairs. The teachings of Li *et al.* therefore anticipate claims 47-62.

In claim 12, Li *et al.* explicitly sets forth that the formulation can be used to absorption of ultraviolet light by the skin of a human; thus the teachings of Li *et al.* also anticipate the limitations of the instant claim 63.

### Allowable Subject Matter

Claims 5-17, 35-40 and 42 are allowed.

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel M Sullivan whose telephone number is 703-305-4448. The examiner can normally be reached on Monday through Friday 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Remy Yucel, Ph.D. can be reached on 703-305-1998. The fax phone numbers for the organization where this application or proceeding is assigned are 703-746-9105 for regular communications and 703-746-9105 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703-308-0196.

dms

January 7, 2003

JAMES KETTER
PRIMARY EXAMINER

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